



1	TGCCTCCCCGCCCGCGCACCCGCCCGAGGCCTGTGCTCCTGCGAAGGGG	50
1	GGGCTCCGGGG	12
51	ACGCAGCGAAGCCGGGCCGGCCCGGACGGACGCCGATG	100
13	·	62
101		150
63	CCCTGAGGATTGGCAGCCAGACTGCTTACGGGTCACTGCCATGGAGG	109
151	GGAAGATGGCCCAGTCCACCACCTCCCCCGATGGGGGCACCACGTTT	200 159
201	GAGCACCTCTGGAGCTCTCTGGAACCAGACAGCACCTACTTCGACCTTCC	250
160	TCAGACCTATGGAAACTACTTCCTGAAAACAAC GTTCTGTCCCCCTTGC	208
251	CCAGTCAAGCCGGGGAATAATGAGGTGGTGGTGGCACGGATTCCAGCA	300
209	CGTCCCAAGCGGTGGATGATTTGATGCTCTCCGGATGATCTTGCACAA	258
301	TGGACGTCTTCCACCTAGAGGGCATGACCACATCTGTCATGGCCCAGTTC	350
259		280
281	AATTTGCTGAGCAGCACCATGGACCAGATGAGCAGCCGCGCTGCCTCGGC	400 319
401	CAGCCCGTACACCCCGGAGCACGCCGCCAGCGTGCCCACCCA	450
320	TGGCCCCACACCAGCAGCTCCTACACCGGCGCCCCTGCACCAGCCCC.	368
451	ACGCACAGCCCAGCTCCACCTTCGACACCATGTCGCCCGCGCCTGTCATC	500
369	crecresecente are create	393
501	CCCTCCAACACCGACTATCCCGGACCCCACCACTTCGAGGTCACTTTCCA	550
394 551	CCTTCCCAGAAAACCTACCACGGCAGCTACGGTTTCCGTCTGGGCTTCCT	443
444	GCAGTCCAGCACGCCAAGTCAGCCACCTGGACGTACTCCCCACTCTTGA	600
601		453 650
494	ACAAGATGTTTTGCCAGCTGGCCAAGACCTGCCCCGTGCAGCTGTGGGTT	543
651	TCCGCCCACCGCCCCGGGCACCGCCATCCGGGCCATGCCTGTCTACAA	700
544	TCCGCCCCACCGCCCCGGGCACCGCCATCCGGCCATGCCTGTCTACAA	593
701	GAAGGCGGAGCACGTGACCGACATCGTGAAGCGCTGCCCCAACCACGAGC	750
594	GCAGTCACAGCACATGACTGAGGTCGTGAGGCGCTGCCCCCACCATGAGC	643
751	TCGGGAGGACTTCAACGAAGGACAGTCTGCCCCAGCCAGC	800
644	GCTGCTCAGACAGCGATGGACTGGCCCCTCCTCAACATCTTATC	687
	CGTGTGGAAGGCAATAATCTCTCGCAGTATGTGGACGACCCTGTCACCGG	
•	CGAGTGGAAGGAAATTTGCGTGTGGAGTATTCGGATGACAGAAACACTTT	
	CAGGCAGAGCGTCGTGGTGCCCTATGAGCCACCACAGGTGGGGACAGAAT	
, , 5	TCGACATAGTGTGGTGCCCTATGAGCCGCCTGAGGTTGGCTCTGACT	187

FIG.1





	the control of the co	
901	TCACCACCATCCTGTACAACTTCATGTGTAACAGCAGCTGTGTGGGGGGC	950
788		837
951	ATGAACCGACGCCCATCCTCATCATCACCCTGGAGACGCGGGATGG	1000
838		887
1001		1050
888	TAATCTACTGGGACGGAACAGCTTTGAGGTGCGAGTTTGTGCCTGTCCTG	937
1051	GCCGCGACCGAAAAGCCGATGAGGACCACTACCGGGAGCAGCAGGCCTTG	1100
938	ĠĠŖĠĸĠĸĊĊĠĠĊĠĊĸĊĸĠĸĠĠĸĸĠĸĠĸĸŦŦŦĊĊĠ	971
1101	AATGAGAGCTCCGCCAAGAACGGGGCTGCCAGCAAGCGCGCCTTCAAGCA	1150
972		1021
1151		1199
1022	CÁCTGCCAACAACACCACTCCTCTCCCCAGCCAAAGAAGAAACCACTG	1071
1200	CACGGAGACGAGGACACGTACTACCTGCAGGTGCGAGGACCTT	1249
1072	· · · · · · · · · · · · · · · · · · ·	1115
	CGAGATCCTGATGAAGCTGAAGGAGAGCCTGGAGCTGATGGAGTTGGTGC	1299
1116	CGAGATGTTCCGAGAGCTGAATGAGGCCTTGGAACTCAAGGA	1157
1300		
	TGCCCAGGCTGGGAAAGAGCCAGCGG. GGAGCAGGGCTCACTCCAGCCA	1205
	CCGAGTCACCTACAGCCCCCATCCTACGGGCCGGTCCTCTCGCCCATGAA	1399
1206	CCTGAAGTCCAAGAAGGGGCAATCTACCTCCCGCCATAAAAAATTCATGT	1255
1400	CAAGGTGCACGGGGGCGTGAACAAGCTGCCCTCCGTCAACCAGCTGGTGG	1449
1256	TCAAGACAGAGGGGCCTGACTCAGACTGACATTCTCAGCTTCTTG	1300
1450	GCCAGCCTCCCCGCACAGCTCGGCAGCTACACCCAACCTGGGACCTGTG	1499
1301	TTCCCCCACTGAGCCTCCCACCCCCATCT.CTCCCTCCCCTGCCATTTTG	1349
1500	GGCTCTGGGATGCTCAACAACCACGGCCACGCAGTGCCACCCAACAGCGA	1549
1350	AGTTCTGGGTCTTTAAACCCTTGCTTGCAATAGGTGTGTGAGAAGCAA	1399
1550	GATGACCAGCCACGGCACCCAGTCCATGGTCTCGGGGTCCCACTGCA	1599
400	λ	1400

FIG.1 cont.

1	MAQSTTTSPDGGTTFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMD	50
1	MEEPQSDPSIEPPLSQETFSDLWKLLPENNVLSPLPSQAVD	41
51	VFHLEGMTTSVMAQFNLLSSTMDQMSSRAASASPYTPEHAASVPTHSPYA	100
42	DLMLSPDDLAQWLTEDPGPDEAPRMSEAAPHMAPTPAAPTPA .APAP	87
101	QPSSTFDTMSPAPVIPSNTDYPGPHHFEVTFQQSSTAKSATWTYSPLLKK	150
88	APSWPLSSSVPSQKTYHGSYGFRLGFLHSGTAKSVTCTYSPDLNK	132
151	LYCQIAKTCPIQIKVSAPPPPGTAIRAMPVYKKAEHVTDIVKRCPNHELG	200
133	MFCQLAKTCPVQLWVDSTPPPGSRVRAMAIYKQSQHMTEVVRRCPHHE	180
201	RDFNEGQSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQVGTEFT	250
181	RCSDSDGLAPPQHLIRVEGNLRVEYSDDRNTFRHSVVVPYEPPEVGSDCT	230
251	TILYNFMCNSSCVGGMNRRPILIIITLETRDGQVLGRRSFEGRICACPGR	300
231	TIHYNYMCNSSCMGGMNRRPILTIITLEDSSGNLLGRNSFEVRVCACPGR	280
301	DRKADEDHYREQQALNESSAKNGAASKRAFKQSPPAVPALGPGVKKRRHG	350
281	DRRTEEENFRKKG. EPCHELPPGSTKRALPNNTSSSPQ PKKKPL	323
351	DEDTYYLOVRGRENFEILMKLKESLELMELVPQPLVDSYROQQQLLQRPS	400
324	DGEYFTLQIRGRERFEMFRELNEALELKDAQAGKEPAGSRAHSSHLKSKK	373
401	${\tt HLQPPSYGPVLSPMNKVHGGVNKLPSVNQLVGQPPPHSSAATPNLGPVGS}$	450
374	GQSTSRHKKFMFKTEGPDSD	393

FIG. 2

. 1		50
. 1	TGCCTCCCGCCCGCGCACCCGCCCGAGGCCTGTGCTCCTGCGAAGGGG	50.
51 51	ACGCAGCGAAGCCGGGCCCGCGCCAGGCCGGCCGGACGCCCGATG	100 100
101	CCCGGAGCTGCGACGGCTGCAGAGCGAGCCCGTGTGA	150
101	CCCGGAGCTGCGACGGCTGCAGAGGCCGGTGTGA	150
151 151	GGAAGATGGCCCAGTCCACCACCACCTCCCCGATGGGGGCACCACGTTT	200
	GAGCACCTCTGGAACCAGACACCACCTACTTCGACCTTCC	200
201	GAGCACCTCTGGAGCTCTCTGGAACCAGACAGCACCTACTTCGACCTTCC	250 250
251	CCAGTCAAGCCGGGGGAATAATGAGGTGGTGGGTGGCACGGATTCCAGCA	300
251	CCAGTCAAGCCGGGGAATAATGAGGTGGTGGGTGGCACGGATTCCAGCA	300
301	TGGACGTCTTCCACCTAGAGGGCATGACCACATCTGTCATGGCCCAGTTC	350
	TGGACGTCTTCCACCTAGAGGGCATGACCACATCTGTCATGGCCCAGTTC	350
351 351	AATTTGCTGAGCAGCACCATGGACCAGATGAGCAGCCGCGCTGCCTCGGC	400
401	CAGCCCGTACACCCCGGAGCACGCCGCCAGCGTGCCCACCCA	450
401	CAGCCCGTACACCCCGGAGCACGCCCAGCGTGCCCACCCA	450
451	ACGCACAGCCCAGCTCCACCTTCGACACCATGTCGCCCGCGCCTGTCATC	500
451	ACGCACAGCCCAGCTCCACCTTCGACACCATGTCGCCCGCGCCTGTCATC	500
501	CCCTCCAACACCGACTATCCCGGACCCCACCACTTCGAGGTCACTTTCCA	550
501	CCCTCCAACACCGACTATCCCGGACCCCACCACTTCGAGGTCACTTTCCA	550
551	GCAGTCCAGCACGGCCAAGTCAGCCACCTGGACGTACTCCCCACTCTTGA	600
551		600
601	AGAAACTCTACTGCCAGATCGCCAAGACATGCCCCATCCAGATCAAGGTG	650
601		650
651	TCCGCCCCACCGCCCCCGGGCACCGCCATCCGGCCATCCCTGTCTACAA	700
651		700
701	GAAGGCGGACACGTGACCGACATCGTGAAGCGCTGCCCCAACCACGAGC	750
701	GAAGGCGGACACGTGACCGACATCGTGAAGCGCTGCCCCAACCACGAGC	750
751	TCGGGAGGACTTCAACGAAGGACAGTCTGCCCCAGCCAGC	800
751	TCGGGAGGACTTCAACGAAGGACAGTCTGCCCCAGCCAGC	800
801	CGTGTGGAAGGCAATAATCTCTCGCAGTATGTGGACGACCCTGTCACCGG	850
801	CGTGTGGAAGGCAATAATCTCTCGCAGTATGTGGACGACCCTGTCACCGG	850
851	CAGGCAGAGCGTCGTGGTGCCCTATGAGCCACCACAGGTGGGGACAGAAT	900
851		900

FIG.3 cont.

901 TCACCACCATCCTGTACAACTTCATGTGTAACAGCAGCTGTGTGGGGGGC 950	•
951 ATGAACCGACGCCCATCCTCATCATCATCACCCTGGAGACGCGGGATGG 1000	
951 ATGAACCGACGCCCATCCTCATCATCATCACCCTGGAGACGCGGGATGG 1000 1001 GCAGGTGCTGGGCCGGCTCCTTCGAGGCCCGCATCTGCGCCTGTCCTG 1050	
1001 GCAGGTGCTGGGCCGGTCCTTCGAGGGCCGCATCTGCGCCTGTCCTG 1050	
1051 GCCGCGACCGAAAAGCCGATGAGGACCACTACCGGGAGCAGCAGGCCTTG 1100	·
1101 AATGAGAGCTCCGCCAAGAACGGGGCTGCCAGCAAGCCCCCCTTCAACCA 1150	•
1101 AATGAGAGCTCCGCCAAGAACGGGGCTGCCAGCAAGCGCGCCTTCAAGCA 1150	*
1151 GAGTCCCCCTGCCGTCCCGCCCTGGGCCCGGGTGTGAAGAAGCGGCGGC 1200	
1201 ACGGAGACGAGGACACGTACTACCTGCAGGTGCGAGGCCGCGAGAACTTC 1250	
1201 ACGGAGACGAGGACACGTACTACCTGCAGGTGCGAGGCCGCGAGAACTTC 1250	
1251 GAGATCCTGATGAAGCTGAAGGAGACCTGAGCTGATGGAGTTGGTGCC 1300	
1301 GCAGCCGCTGGTAGACTCCTATCGGCAGCAGCAGCAGCTCCTACAGAGGC 1350	•
1351 CGAGTCACCTACAGCCCCCATCCTACGGGCCGTCCTCTCGCCCATGAAC 1400	
1351 CGAGTCACCTACAGCCCCCATCCTACGGGCCGGTCCTCTCGCCCATGAAC 1400 1401 AAGGTGCACGGGGGGGGTGAACAAGCTGCCCTCCGTCAACCAGCTGGTGGG 1450	
1401 AAGGTGCACGGGGGGGTGAACAAGCTGCCCTCCGTCAACCAGCTGGTGGG 1450	
1451 CCAGCCTCCCCGCACAGCTCGGCAGCTACACCCAACCTGGGACCTGTGG 1500	
1451 CCAGCCTCCCCGCACAGCTCGGCAGCTACACCCAACCTGGGACCTGTGG 1500 1501 GCTCTGGGATGCTCAACAACCACGGCCACGCAGTGCCAGCCA	
1501 GCTCTGGGATGCTCAACAACCACGGCCACGCAGTGCCAGCCA	
1551 ATGACCAGCAGCCACGGCACCCAGTCCATGGTCTCGGGGTCCCACTGCAC 1600	
1601 TCCGCCACCCCCTACCACGCCGACCCCAGCCTCGTCAGTTTTTTTAACAG 1650	
1601 TCCGCCACCCCCTACCACGCCGACCCCAGCCTCGTC	
1701 AGCATTTACCACCTGCAGAACCTGACCATCGAGGACCTGGGGGCCCTGAA 1750	FIG.3
751 GATCCCCGAGCAGTATCGCATGACCATCTGGCGGGCCTGCAGGACCTGA 1800	cont.
111111111111111111111111111111111111111	<u> </u>

	•	
1657	GATCCCCGAGCAGTATCGCATGACCATCTGGCGGGGCCTGCAGGACCTGA	1706
1801	AGCAGGGCCACGACTACGGCGCCGCGCGCAGCAGCTGCTCCGGCTCCAGC	1850
1707	AGCAGGGCCACGACTACGGCGCCGCCGCCAGCAGCTGCTCCGCTCCAGC	1756
1851	AACGCGGCCGCCATTTCCATCGGCGGCTCCGGGGAGCTGCAGCGCCAGCG	1900
1757	AACGCGGCCGCCATTTCCATCGGCGGCTCCGGGGAGCTGCAGCGCCAGCG	1806
1901	GGTCATGGAGGCCGTGCACTTCCGCGTGCGCCACACCATCACCATCCCCA	1950
807	GGTCATGGAGGCCGTGCACTTCCGCGTGCGCCACACCATCACCATCCCCA	1856
951	ACCGCGGCGCCCCGGCCCCGACGAGTGGGCGGACTTCGGCTTC	2000
857	ACCGCGGCGCCCGGCCCCGACGAGTGGGCGGACTTCGGCTTC	1906
001	GACCTGCCGACTGCAAGGCCCGCAAGCAGCCCATCAAGGAGGAGTTCAC	2050
907	GACCTGCCCGACTGCAAGGCCCGCAGCAGCCCCATCAAGGAGGAGTTCAC	1956
051	GGAGGCCGAGATCCACTGAGGGGCCGGGCCCAGCCAGAGCCTGTGCCACC	2100
	GGAGGCCGAGATCCACTGAGGGGCCGGGCCCAGCCAGAGCCTGTGCCACC	
	GCCCAGAGACCCAGGCCGCCTCGCTCTC 2128	-,
007	GCCCAGAGACCCAGGCCGCCTCGCTCTC 2034	

FIG.3cont.

TGCCTCCCGCCCGCGCACCCGCCCCGAGGCCTGTGCTCCTGCGAAGGGGACGCAGCGAA

GCCACGGCACCCAGTCCATGGTCTCGGGGTCCCACTGCACTCCGCCACCCCCCTACCACG

CCGACCCCAGCCTCGTCAGTTTTTTAACAGGATTGGGGTGTCCAAACTGCATCGAGTATT

H

G

1561 470

1621

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Q S M V

H G

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1680

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TCACGTCCCAGGGGTTACAGAGCATTTACCACCTGCAGAACCTGACCATCGAGGACCTGG
                                                                  1740
529
      T S Q G L Q S I Y H L Q N L T I E D L G GGGCCCTGAAGATCCCCGAGCAGTATCGCATGACCATCTGGCGGGGCCTGCAGGACCTGA
1741
                                                                  1800
                      Ε
                               R
                                  M
                                                                  549
      AGCAGGGCCACGACTACGGCGCCGCCGCGCAGCAGCTGCTCCGCTCCAGCAACGCGGCCG
1801
                                                                  1860
      Q G H D Y G A A A Q Q L L R S S N A A A CCATTTCCATCGGCGGCTCCGGGGAGCTGCAGCGCGCGGTCATGGAGGCCGTGCACT
 550
                                                                  569
1861
                                                                  1920
 570
                         G
                            E L
                                  Q
                                    R
                                       Q
                                          R
                                                M
      1921
                                                                  1980
      R V R H T I T I P N R G G P G A G P D E AGTGGGCGGACTTCGACCTGCCGGACTGCAAGGCCGCAAGCAGCCCATCAAGG
 590
                                                                  609
1981
                                                                  2040
      610
                                                                  629
2041
                                                                  2100
     E F T E A E I H +
GCCCAGAGACCCAGGCCGCCTCGCTCTCCTGTGTCCAAAACTGCCTCCGGAGGCAG
630
                                                                  649
2101
                                                                  2160
      GGCCTCCAGGCTGTGCCCGGGGAAAGGCAAGGTCCGGCCCATGCCCCGGCACCTCACCGG
2161
                                                                  2220
2221
2281
2341
2401
      CCCCAGGAGAGGCCCAGCCACCAAAGCCGCCTGCGGACAGCCTGAGTCACCTGCAGAACC
                                                                  2280
      2340
2400
     CACTGCCGGGCGTGCTCCATGGCAGGCGTGGGGACCGCAGTGTCAGCTCCGACCTC
     2460
2461
2521
      AATCCTCTTCGCTGGTGGACTGCCAAAAAGTATTTTGCGACATCTTTTGGTTCTGGAGAG
                                                                  2520
     TGGTGAGCAGCCAAGCGACTGTGTCTGAAACACCGTGCATTTTCAGGGAATGTCCCTAAC
                                                                  2580
2581
     GGGCTGGGGACTCTCTCTGCTGGACTTGGGAGTGGCCTTTGCCCCCAGCACACTGTATTC
                                                                  2640
2641
     TGCGGGACCGCCTCCTTCCTGCCCCTAACAACCACCAAAGTGTTGCTGAAATTGGAGAAA
                                                                  2700
2701
     ACTGGGGAAGGCGCAACCCCTCCCAGGTGCGGGAAGCATCTGGTACCGCCTCGGCCAGTG
                                                                  2760
2761
     CCCCTCAGCCTGGCCACAGTCACCTCTCCTTGGGGAACCCTGGGCAGAAAGGGACAGCCT
                                                                  2820
     GTCCTTAGAGGACCGGAAATTGTCAATATTTGATAAAATGATACCCTTTTCTAC 2874
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FIG.4 cont.

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TGCCTCCCGCCGCGCACCCGCCCCGAGGCCTGTGCTCCTGCGAAGGGGACGCAGCGAA
      GCCGGGGCCCGCGCCAGGCCGGCCGGACGGACGCCGATGCCCGGAGCTGCGACGGCTGC
  61
                                                                120
      AGAGCGAGCTGCCCTCGGAGGCCGGTGTGAGGAAGATGGCCCAGTCCACCACCACCTCCC
 121
                                                                180
 -10
 181
      CCGATGGGGGCACCACGTTTGAGCACCTCTGGAGCTCTCTGGAACCAGACAGCACCTACT
                                                                240
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                                Self.
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      241
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  30
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      TGGACGTCTTCCACCTAGAGGGCATGACCACATCTGTCATGGCCCAGTTCAATTTGCTGA
 301
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                                   S
                                        M
                                           A
                                              0
      GCAGCACCATGGACCAGATGAGCAGCCGCGCTGCCTCGGCCAGCCCGTACACCCCGGAGC
 361
                                                                420
            M D Q M S
                          SRA
                                   A
                                            S
                                              Ρ.
                                         A
                                                    T
                                                         E
                                                                89
      ACGCCGCCAGCGTGCCCACCCATTCACCCTACGCACAGCCCAGCTCCACCTTCGACACCA
 421
                                                                480
  90
                                      Q
                                                                109
      TGTCGCCCGCGCCTGTCATCCCCTCCAACACCGACTATCCCGGACCCCACCACTTCGAGG
 481
                                                                540
     S P A P V I P S N T D Y P G P H H F E V TCACTTTCCAGCAGTCCAGCCAGTCAGCCACCTGGACGTACTCCCACTCTGA
 110
                                                                129
 541
                                                                600
 130
                0 S S
                        TAKSATWT
                                                                149
     AGAAACTCTACTGCCAGATCGCCAAGACATGCCCCATCCAGATCAAGGTGTCCGCCCCCAC
 601
                                                                660
 150
         LYC
                  QIAKTCPIQIK
                                                                169
     CGCCCCGGGCACCGCCATCCGGGCCATGCCTGTCTACAAGAAGGCGGAGCACGTGACCG
 661
                                                                720
 170
                             M P
                                      YKK
                                                                189
     ACATCGTGAAGCGCTGCCCCAACCACGAGCTCGGGAGGACTTCAACGAAGGACAGTCTG
 721
                                                                780
 190
            K
                    PNHELGRDFNEG
               R
                                                                209
     CCCCAGCCAGCCACCTCATCCGTGTGGAAGGCAATAATCTCTCGCAGTATGTGGACGACC
 781
                                                                840
 210
                                  N
                                     N L
                                                      D D
                                                                229
     CTGTCACCGGCAGGCAGAGCGTCGTGGTGCCCTATGAGCCACCACAGGTGGGGACAGAAT
 841
                                                                900
 230
            GR
                                   YEP
                                          PO
                                                 V G
                                                      TE
                                                                249
     TCACCACCATCCTGTACAACTTCATGTGTAACAGCAGCTGTGTGGGGGGCATGAACCGAC
 901
                                                                960
250
                                                   M.
                                                                269
     GGCCCATCCTCATCATCATCACCCTGGAGACGCGGGATGGGCAGGTGCTGGGCCGCCGGT
 961
                                                                1020
270
                                   R D
                                         GQ
                                                   G
                                                      R
                                                                289
1021
     CCTTCGAGGGCCGCATCTGCGCCTGTCCTGGCCGCGACCGAAAAGCCGATGAGGACCACT
                                                                1080
290
                                                                309
1081
     ACCGGGAGCAGCAGGCCTTGAATGAGAGCTCCGCCAAGAACGGGGCTGCCAGCAAGCGCG
                                                                1140
310
                                                                329
     CCTTCAAGCAGAGTCCCCCTGCCGTCCCCGCCCTGGGCCCGGGTGTGAAGAAGCGGCGGC
1141
                                                                1200
330
                              P
                                                                349
     ACGGAGACGAGGACACGTACTACCTGCAGGTGCGAGGGCCGCGAGAACTTCGAGATCCTGA
1201
                                                                1260
350
                                                                369
1261
     TGAAGCTGAAGGAGAGCCTGGAGCTGATGGAGTTGGTGCCGCAGCCGCTGGTAGACTCCT
                                                                1320
370
            KE
                  S
                       E
                             M
                                E
                                         P
                                           Q
                                                                389
1321
     ATCGGCAGCAGCAGCTCCTACAGAGGCCGAGTCACCTACAGCCCCCATCCTACGGGC
                                                                1380
     390
1381
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         LSPMN
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     AGCTGGTGGGCCAGCCTCCCCGCACAGCTCGGCAGCTACACCCAACCTGGGACCTGTGG
1441
                                                                1500
430
            GO
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                              S
                                     A
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                                                                449
     1501
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                             H A V
450
         GHL
                 NNHG
                                     P
                                           N
                                        A
                                              S
                                                RH
                                                      T
                                                         S
                                                            S
                                                                469
     GCCACGGCACCCAGTCCATGGTCTCGGGGTCCCACTGCACTCCGCCACCCCCTACCACG
1561
                                                                1620
470
                    M
                           S
                             G
                                S H C
                                       T
                                           P
               0
                  s
                                                                489
     CCGACCCAGCCTCGTCAGGACCTGGGGGCCCTGAAGATCCCCGAGCAGTATCGCATGAC
1621
                                                                1680
            S L
                  VRT
                          WG
490
                                                                509
1681
     CATCTGGCGGGGCCTGCAGGACCTGAAGCAGGGCCACGACTACGGCGCGCCGCGCAGCA
                                                                1740
1741
     GCTGCTCCGCTCCAGCAACGCGGCCGCCATTTCCATCGGCGGCTCCGGGGAGCTGCAGCG
                                                                1800
1801
     CCAGCGGGTCATGGAGGCCGTGCACTTCCGCGTGCGCCACACCATCACCATCCCCAACCG
                                                                1860
1861
     CGGCGGCCCGGCCCGACGACGAGTGGGCGACTTCGGCTTCGACCTGCCCGACTG
                                                                1920
     CAAGGCCCGCAAGCAGCCCATCAAGGAGGAGTTCACGGAGGCCGAGATCCACTGAGGGGC
1921
                                                                1980
1981
     CGGGCCCAGCCAGAGCCTGTGCCACCGCCCAGAGACCCAGGCCGCCTCGCTCTC
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GCGAGCTGCCCTCGGAGGCCGGCGTGGGGAAGATGGCCCAGTCCACCGCCACCTCCCCTG
    1
                                                                     60
   -9
                                       MAQS
                                                  T A
                                                                     10
   61
       ATGGGGGCACCACGTTTGAGCACCTCTGGAGCTCTCTGGAACCAGACAGCACCTACTTCG
                                                                     120
   11
               TTFE
                          HLWSSLEP
                                                  D
                                                     s
  121
       ACCTTCCCCAGTCAAGCCGGGGAATAATGAGGTGGTGGGCGGAACGGATTCCAGCATGG
                                                                     180
   31
                     SR
                             N N E
                                      V V G G
                                                     D
       ACGTCTTCCACCTGGAGGGCATGACTACATCTGTCATGGCCCAGTTCAATCTGCTGAGCA
  181
   51
                     Ε
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                                     V M A
                                               Q
                                                  F
                                                        L
                                                                     70
  241
       GCACCATGGACCAGATGAGCAGCCGCGCGCCTCGGCCAGCCCCTACACCCCAGAGCACG
                                                                     300
   71
                             R
                               A A S A
                                                  Y
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                                                                     90
  301
       CCGCCAGCGTGCCCACCCACTCGCCCTACGCACAACCCAGCTCCACCTTCGACACCATGT
                                                                     360
   91
                       Н
                          S
                                Y A Q
                                        P S S
                                                        D
                                                                     110
       CGCCGGCGCCTGTCATCCCCTCCAACACCGACTACCCCGGACCCCACCACTTTGAGGTCA
  361
                                                                     420
                             N T
                                  D
                                     Y P
                                           G P
                                                                     130
      CTTTCCAGCAGTCCAGCACGCCAAGTCAGCCACCTGGACGTACTCCCCGCTCTTGAAGA
  421
                                                                     480
                             K
                                SAT
                                        W T
                                              Y S
                                                                     150
      AACTCTACTGCCAGATCGCCAAGACATGCCCCATCCAGATCAAGGTGTCCACCCCGCCAC
 481
                                                                     540
 151
                                С
                                  P
                                     IQIKVS
                                                                     170
 541
      CCCCAGGCACTGCCATCCGGGCCATGCCTGTTTACAAGAAAGCGGAGCACGTGACCGACG
                                                                     600
 171
                                      Y
                                        KKAE
                                                                     190
      TCGTGAAACGCTGCCCCAACCACGAGCTCGGGAGGGACTTCAACGAAGGACAGTCTGCTC
 601
 191
                          Н
                             Ε
                               L
                                   G
                                        D
                                           FNE
 661
      CAGCCAGCCACCTCATCCGCGTGGAAGGCAATAATCTCTCGCAGTATGTGGATGACCCTG
                                                                     720
 211
                             E
                                G
                                   N
                                      N
                                              Q
                                                 Y V
                                                                     230
 721
      TCACCGGCAGGCAGAGCGTCGTGGTGCCCTATGAGCCACCACAGGTGGGGACGGAATTCA
                                                                     780
 231
                 0
                          \mathbf{v} \cdot \mathbf{v}
                                P
                                   Y
                                      E
                                               Q
                                                                     250
      CCACCATCCTGTACAACTTCATGTGTAACAGCAGCTGTGTAGGGGGCATGAACCGGCGGC
                                                                     840
                 Y
                    N
                          М
                             C N
                                   S
                                      S
                                         С
                                           V
                                              G
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                                                    MNRR
      CCATCCTCATCATCACCCTGGAGATGCGGGATGGGCAGGTGCTGGGCCGCCGGTCCT
                                                                     900
              Ι
                    I
                          L
                             E
                                M R D
                                         G
                                           Q
                                              V
                                                                     290
      TTGAGGGCCGCATCTGCGCCTGTCCTGGCCGCGACCGAAAAGCTGATGAGGACCACTACC
 901
                                                                     960
 291
                    С
                       Α
                          C
                             P
                                G
                                   RDRKAD
                                                                     310
      GGGAGCAGCAGGCCCTGAACGAGAGCTCCGCCAAGAACGGGGCCGCCAGCAAGCGTGCCT
 961
                                                                     1020
 311
                          E
                             S
                                S
                                   Α
                                     ĸ
                                        N
                                           G
                                              Α
                                                 Α
      TCAAGCAGAGCCCCCCTGCCGTCCCCGCCCTTGGTGCCGGTGTGAAGAAGCGGCGGCATG
1021
                                                                     1080
 331
                                Α
                                   L
                                     G
                                        A
                                           G
                                             v
                                                 K
                                                    K
1081
      GAGACGAGGACACGTACTACCTTCAGGTGCGAGGCCGGGAGAACTTTGAGATCCTGATGA
 351
                             Q
                                   R
                                      G
                                        R
                                           E
                                              N
                                                    E
                                                       I
                                                                     370
      AGCTGAAAGAGAGCCTGGAGCTGATGGAGTTGGTGCCGCAGCCACTGGTGGACTCCTATC
1141
 371
                             М
                                E
                                         P
                                           0
                                              P
                                                    v
                                                 L
                                                       D
1201
      GGCAGCAGCAGCTCCTACAGAGGCCGAGTCACCTACAGCCCCCGTCCTACGGGCCGG
                                                                    1260
 391
                                     H
                                        L
                                           0
                                              P
                                                 P
                                                    S
                                                       Y
                                                                     410
1261
      TCCTCTCGCCCATGAACAAGGTGCACGGGGGCATGAACAAGCTGCCCTCCGTCAACCAGC
                                                                    1320
 411
                 M
                             H
                                     M
                                        N
                                           K
                                                 P
                                              L
                                                    S
                                                       v
                                                          N
                                                                     430
                                                            Q
1321
      TGGTGGGCCAGCCTCCCCGCACAGTTCGGCAGCTACACCCAACCTGGGGCCCGTGGGCC
                                                                    1380
 431
             Q
               . P
                    P
                         H
                                S
                                        T
                                              N
                                                 L
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                                                       ₽
                                                                    450
                                                          v
                                                             G
1381
      CCGGGATGCTCAACAACCATGGCCACGCAGTGCCAGCCAACGGCGAGATGAGCAGCAGCC
                                                                    1440
 451
                N
                   N
                      Н
                         G
                            Н
                               A V
                                     P
                                        A N G
                                                 EM
                                                                    470
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FIG.6 cont.

13

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1	TGGTCCCGCTTCGACCAAGACTCCGGCTACCAGCTTGCGGGCCCCCGCGGAGGAGGAGACC	60
61	CCGCTGGGGCTAGCTGGGCGACGCGCGCCAAGCGGCGGGAAGGAGGCGGGAGGAG	120
121	GGGCCGAGACCCCGACTCGGGCAGAGCCAGCTGGGAGCCGGGGGGGCGCGCGTGGGAGCCA	180
181	GGGGCCCGGGTGGCCGGCCTCCTCCGCCACGGCTGAGTGCCCGCGCTGCCTTCCCGCCG	240
241	GTCCGCCAAGAAAGGCGCTAAGCCTGCGGCAGTCCCCTCGCCGCCGCCTCCCTGCTCCGC	300
301	ACCCTTATAACCCGCCGTCCCGCATCCAGGCGAGGAGGCAACGCTGCAGCCCAGCCCTCG	
361	CCGACGCCGACGCCCGGAGCAGAATGAGCGGCAGCGTTGGGGAGATGGCCCAGAC	360
-8	M C C C U C D U	420
421.	CTCTTCTTCCTCCTCCACCTTCGAGCACCTGTGGAGTTCTCTAGAGCCAGACAGCAC	11
12		480
481		31
	CTACTTTGACCTCCCCAGCCAGCCAAGGGACTAGCGAGGCATCAGGCAGCGAGGAGTC	540
32	Y F D L P Q P S Q G T S E A S G S E E S	51
541	CAACATGGATGTCTTCCACCTGCAAGGCATGGCCCAGTTCAATTTGCTCAGCAGTGCCAT	600
52	N M D V F H L Q G M A Q F N L L S S A M	71
601	GGACCAGATGGGCAGCCGTGCGGCCCCGGCGAGCCCCTACACCCCGGAGCACGCCGCCAG	660
72	DQMGSRAAPASPYTPEHAAS	91
661	CGCGCCCACCCACTCGCCCTACGCGCAGCCCAGCTCCACCTTCGACACCATGTCTCCGGC	720
92	APTHSPYAQPSSTFDTMSPA	111
721	GCCTGTCATCCCTTCCAATACCGACTACCCCGGCCCCC 758	
112	PVIPSNTDYPGP 123	

FIG.8

```
Name: sr-p70a-cos3
                            Len:
                                    650
                                          Check: 9661 Weight:
_ Name: sr-p70b-cos3
                            Len:
                                     650
                                          Check: 3605
                                                        Weight:
                                                                  1.00
 _ Name: sr-p70-ht29
                                                  85
                            Len:
                                    650
                                          Check:
                                                        Weight:
                                                                  1.00
                                          Check: 4072
  Name: sr-p70c-att20
                            Len: 650
                                                        Weight:
                                                                  1.00
_ Name: sr-p70a-att20
                            Len:
                                    650
                                          Check: 4204
                                                        Weight:
_//
_ sr-p70a-cos3
                  ..... MAQ STTTSPDGGT TFEHLWSSLE PDSTYFDLPQ SSRGNNEVVG
_ sr-p70b-cos3
                  ..... MAQ STTTSPDGGT TFEHLWSSLE PDSTYFDLPQ SSRGNNEVVG
                  ..... MAQ STATSPDGGT TFEHLWSSLE PDSTYFDLPQ SSRGNNEVVG
   sr-p70-ht29
_sr-p70c-att20
                  MSGSVGEMAQ ... TSSSSSS TFEHLWSSLE PDSTYFDLPQ PSQGTSEASG
_sr-p70a-att20
                  GTDSSMD.VF HLEGMTTSVM AQFNLLSSTM DQMSSRAASA SPYTPEHAAS
_ sr-p70a-cos3
_ sr-p70b-cos3
                  GTDSSMD.VF HLEGMTTSVM AQFNLLSSTM DQMSSRAASA SPYTPEHAAS
   sr-p70-ht29
                  GTDSSMD.VF HLEGMTTSVM AQFNLLSSTM DQMSSRAASA SPYTPEHAAS
_sr-p70c-att20
                  ...MCMGPVY ..ESLG...Q AQFNLLSSAM DQMGSRAAPA SPYTPEHAAS
_sr-p70a-att20
                  SEESNMD.VF HLQGM..... AQFNLLSSAM DQMGSRAAPA SPYTPEHAAS
_ sr-p70a-cos3
                  VPTHSPYAQP SSTFDTMSPA PVIPSNTDYP GPHHFEVTFQ QSSTAKSATW
                 VPTHSPYAQP SSTFDTMSPA PVIPSNTDYP GPHHFEVTFQ QSSTAKSATW VPTHSPYAQP SSTFDTMSPA PVIPSNTDYP GPHHFEVTFQ QSSTAKSATW
_ sr-p70b-cos3
  sr-p70-ht29
                  APTHSPYAQP SSTFDTMSPA PVIPSNTDYP GPHHFEVTFQ QSSTAKSATW
_sr-p70c-att20
                  APTHSPYAQP SSTFDTMSPA PVIPSNTDYP GP......
_sr-p70a-att20
                 TYSPLLKKLY CQIAKTCPIQ IKVSAPPPPG TAIRAMPVYK KAEHVTDIVK
_ sr-p70a-cos3
                 TYSPLLKKLY CQIAKTCPIQ IKVSAPPPPG TAIRAMPVYK KAEHVTDIVK TYSPLLKKLY CQIAKTCPIQ IKVSTPPPPG TAIRAMPVYK KAEHVTDVVK
_ sr-p70b-cos3
  sr-p70-ht29
_sr-p70c-att20
                  TYSPLLKKLY CQIAKTCPIQ IKVSTPPPPG TAIRAMPVYK KAEHVTDIVK
_sr-p70a-att20
                  201
_ sr-p70a-cos3
                 RCPNHELGRD FNEGQSAPAS HLIRVEGNNL SQYVDDPVTG RQSVVVPYEP
_ sr-p70b-cos3
                 RCPNHELGRD FNEGQSAPAS HLIRVEGNNL SQYVDDPVTG RQSVVVPYEP
                  RCPNHELGRD FNEGQSAPAS HLIRVEGNNL SQYVDDPVTG RQSVVVPYEP
  sr-p70-ht29
sr-p70c-att20
                 RCPNHELGRD FNEGQSAPAS HLIRVEGNNL AQYVDDPVTG RQSVVVPYEP
_sr-p70a-att20
                 PQVGTEFTTI LYNFMCNSSC VGGMNRRPIL IIITLETRDG QVLGRRSFEG
PQVGTEFTTI LYNFMCNSSC VGGMNRRPIL IIITLETRDG QVLGRRSFEG
 sr-p70a-cos3
 sr-p70b-cos3
  sr-p70-ht29
                 POVGTEFTTI LYNFMCNSSC VGGMNRRPIL IIITLEMRDG OVLGRRSFEG
_sr-p70c-att20
                 PQVGTEFTTI LYNFMCNSSC VGGMNRRPIL VIITLETRDG QVLGRRSFEG
_sr-p70a-att20
_sr-p70a-cos3
                 RICACPGRDR KADEDHYREQ QALNESSAKN GAASKRAFKQ SPPAVPALGP
                 RICACPGRDR KADEDHYREQ QALNESSAKN GAASKRAFKQ SPPAVPALGP
RICACPGRDR KADEDHYREQ QALNESSAKN GAASKRAFKQ SPPAVPALGA
_ sr-p70b-cos3
  sr-p70-ht29
_sr-p70c-att20
                 RICACPGRDR KADEDHYREQ QALNESTIKN GAASKRAPKQ SPPAIPALGT
_sr-p70a-att20
```

```
sr-p70a-cos3
                 GVKKRRHGDE DTYYLQVRGR ENFEILMKLK ESLELMELVP QPLVDSYR..
 sr-p70b-cos3
                 GVKKRRHGDE DTYYLOVRGR ENFEILMKLK ESLELMELVP OPLVDSYR..
   sr-p70-ht29
                 GVKKRRHGDE DTYYLQVRGR ENFEILMKLK ESLELMELVP OPLVDSYR.
_sr-p70c-att20
                 NVKKRRHGDE DMFYMHVRGR ENFEILMKVK ESLELMELVP QPLVDSYRQQ
_sr-p70a-att20
_ sr-p70a-cos3
                QQQLLQRPS HLQPPSYGPV LSPMNKVHGG VNKLPSVNQL VGQPPPHSSA
QQQQLLQRPS HLQPPSYGPV LSPMNKVHGG VNKLPSVNQL VGQPPPHSSA
_ sr-p70b-cos3
  sr-p70-ht29
                 QQQQLLQRPS HLQPPSYGPV LSPMNKVHGG MNKLPSVNQL VGQPPPHSSA
_sr-p70c-att20
                 QQQQLLQRPS HLQPPSYGPV LSPMNKVHGG VNKLPSVNQL VGQPPPHSSA
_sr-p70a-att20
                                                                      500
_ sr-p70a-cos3
                 ATPNLGPVGS GMLNNHGHAV PANSEMTSSH GTQSMVSGSH CTPPPPYHAD
_ sr-p70b-cos3
                 ATPNLGPVGS GMLNNHGHAV PANSEMTSSH GTQSMVSGSH CTPPPPYHAD
  sr-p70-ht29
                 ATPNLGPVGP GMLNNHGHAV PANGEMSSSH SAQSMVSGSH CTPPPPYHAD
_sr-p70c-att20
                 AGPNLGPMGS GMLNSHGHSM PANGEMNGGH SSQTMVSGSH CTPPPPYHAD
_sr-p70a-att20
                 501
                 PSLVSFLTGL GCPNCIEYFT SQGLQSIYHL QNLTIEDLGA LKIPEQYRMT
 sr-p70a-cos3
_sr-p70b-cos3
                 PSLVR..T.W G.P.....
sr-p70-ht29
sr-p70c-att20
                 PSLVSFLTGL GCPNCIEYFT SQGLQSIYHL QNLTIEDLGA LKIPEQYRMT
                 PSLVSFLTGL GCPNCIECFT SQGLQSIYHL QNLTIEDLGA LKVPDQYRMT
_sr-p70a-att20
_ sr-p70a-cos3
                 IWRGLQDLKQ GHDYGAAAQQ LLR.SSNAAA ISIGGSGELQ RQRVMEAVHF
_ sr-p70b-cos3
  sr-p70-ht29
                 IWRGLQDLKQ GHDYS.TAQQ LLR.SSNAAT ISIGGSGELQ RQRVMEAVHF
_sr-p70c-att20
                 IWRGLQDLKQ SHDCG...QQ LLRSSSNAAT ISIGGSGELQ RQRVMEAVHF
_sr-p70a-att20
                                       RVRHTITIPN RGGPGA..GP DEWADFGFDL PDCKARKQPI KEEFTEAEIH
_ sr-p70a-cos3
 sr-p70b-cos3
                RVRHTITIPN RGGPGG. .GP DEWADFGFDL PDCKARKQPI KEEFTEAEIH
  -sr-p70-ht29
sr-p70c-att20
                RVRHTITIPN RGGAGAVTGP DEWADFGFDL PDCKSRKQPI KEEFTETESH
_sr-p70a-att20
```

FIG.9 cont.

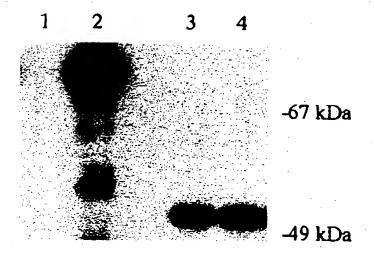


FIG.10a

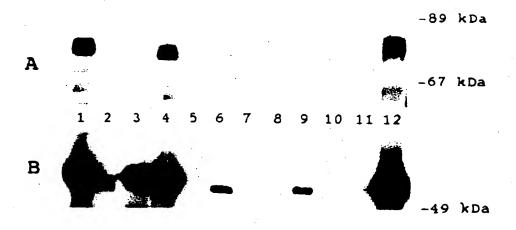


FIG.10b

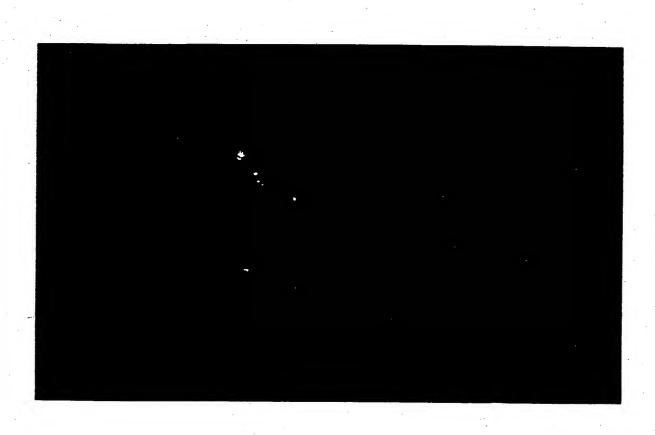


FIG.11

1	→ ²	
. 1	1 MAQS. TATSPDGGTTFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMD	50
1	1 MEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMD 2 3 4	41
	51 VFHLEGMTTSVMAQFNLLSSTMDQMSSRAASASPYTPEHAASVPTHSPYA	100
	42 DLMLSPDDIEQWFTEDPGPDEAPRMPEAAPPVAPAPAAPTPA.APAP	87
	101 QPSSTFDTMSPAPVIPSNTDYPGPHHFEVTFQQSSTAKSATWTYSPLLKK	150
	88 APSWPLSSSVPSQKTYQGSYGFRLGFLHSGTAKSVTCTYSPALNK	132
	151 LYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAEHVTDVVKRCPNHELG	200
	133 MFCQLAKTCPVQLWVDSTPPPGTRVRAMAIYKQSQHMTEVVRRCPHHE:	180
	201 RDFNEGQSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQVGTEFT	250
	181 RCSDSDGLAPPQHLIRVEGNLRVEYLDDRNTFRHSVVVPYEPPEVGSDCT 2	2 3 0
	251 TILYNFMCNSSCVGGMNRRPILIIITLEMRDGQVLGRRSFEGRICACPGR	300
	231 TIHYNYMCNSSCMGGMNRRPILTIITLEDSSGNLLGRNSFEVRVCACPGR 2	280
	301 DRKADEDHYREQQALNESSAKNGAASKRAFKQSPPAVPALGAGVKKRRHG 3	350
	281 DRRTEEENLRKKGEPHHELP. PGSTKRALPNNTSSSPQPKKKPL 3	
	351 DEDTYYLQVRGRENFEILMKLKESLELMELVPQPLVDSYRQQQQLLQRPS 4	- 11 100
	324 DGEYFTLQIRGRERFEMFRELNEALELKDAQAGKEPGGSRAHSSHLKSKK 3	73
	401 HLQPPSYGPVLSPMNKVHGGMNKLPSVNQLVGQPPPHSSAATPNLGPVGP 4	. 12
		93
	451 GMLNNHGHAVPANGEMSSSHSAQSMVSGSHCTPPPPYHADPSLVSFLTGL 5	00
	501 GCPNCIEYFTSQGLQSIYHLQNLTIEDLGALKIPEQYRMTIWRGLQDLKQ 5	50
	551 GHDYSTAQQLLRSSNAATISIGGSGELQRQRVMEAVHFRVRHTITIPNRG 6	00
	601 GPGGGPDEWADFGFDLPDCKARKQPIKEEFTEAEIH 6	36

INTRON1

CACCTACTCC AGGGATGCCC CAGGCAGGCC CACTTGCCTG CCGCCCCAC

CGAGGCTGTC ACAGGAGGAC AGAGCACGAG TTCCCAGGGT GCTCAGGTGT

EXON2

CCCCTGGGAG GCACTCTGGG CTAGCCTCAG CCACCTTCGC TGGGCTAACT

CACCTCTGGA GCTCTCTGTG AGTGCGCTTG GCTGGCCCAGA GCTGGGGGCC

AGATGGCCCA GTCCACCGCC ACCTCCCCTG ATGGGGGCAC CACGTYTTGAG

CATTCCTTCC TTCCTGCAG GCGAGCTGCC CTCGGAGGCC GGCGTGGGGA

-STY1 101

CCTCGG

+STY1

CACCCTCACT GAGACTTTGG GCTAAACTTG GCAACCCTCA CTGGGATTTCT

351

301

GGGCCAGAGC AGGAGGGGTG GCCCCGGGAG GACTCTGGGC TAGCCCCAGC

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. *		N2						,	
		INTRONZ							EXON3
GGGCTAGCCT CGACCACCCT TGCTGCACTA ACTGGACCAG AGCAGGAGAG	GTGGCTCCAC ACTAGTCTTG GGCTAGCCTT AGCCACCCTC ATCAGCTTGG	GGACAGGGCG GGTCGGAGGG GCAGGGAAGA GGGACTGCTG CCCTAGGCCT	TCCCTGGGGA TGCAGGACCA AAATTCAGAC TCTTTTCTCT GGCCAGCTCT	GGAGAGGGCC CATGGCCAGC AGAGGCCCAG AATAACAGAG CCCATGACTG	GCTCTGCCTC TCTGGCACTC ACAGCAGCCC TGGAATGGCA GGTGGAGGAC	AGAGATGGGA TGAGAGGGAA TGGGAAGGGC AGGAGACGTA GGCCTCACCA	GGAGTCTCAG GCTAGCCTTG AGCTCTGGGC CTGGGAGGTA TTGGGGTGAC	ACCCAAACTG GGACTGACG CTTCTATTTT CCTCTCCCTG CCCCAGGGAA	CCAGACAGCA CCTACTTCGA CCTTCCCCAG TCAAGCCGG
401	451	501	551	601	651	701	751	801	851

	CG CG	ACCTTCCCCA ACCTTCCCCA	GTCAAGCCGG GTCAAGCCGG	GGGAATAATG GGGAATAATG	32 150
AGGTGGTGGG	CGGAACGGAT	TCCAGCATGG	ACGTCTTCCA	CCTGGAGGC	82
AGGTGGTGGG	CGGAACĢGAT	TCCAGCATGG	ACGTCTTCCA	CCTGGAGGGC	200
ATGACTACAT	CTGTCATGCA	TCCTCGGCTC	CTGCCTCACT	AGCTGCGGAG	132
ATGACTACAT	CTGTCAT		• • • • • • • • • • • • • • • • • • • •		217
CCTCTCCCGC	TCGGTCCACG	CTGCCGGGCG	GCCACGACCG	TGACCCTTCC	182
	• • • • • • • • • • • • • • • • • • • •				
CCTCGGGCCG	CCCAGATCCA	TGCCTCGTCC	CACGGGACAC	CAGTTCCCTG	232
	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • •		
GCGTGTGCAG	ACCCCCGGC	GCCTACCATG	CTGTACGTCG	GTGACCCCGC	282
• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		
ACGGCACCTC	GCCACGGCCC	AGTTCAATCT	GCTGAGCAGC	ACCATGGACC	332
• • • • • • • • • • •	GGCCC	AGTTCAATCT	GCTGAGCAGC	ACCATGGACC	252
AGATGAGCAG	CCGCGCGGCC	TCGGCCAGCC	CCTACACCCC	AGAGCACGCC	300
AGATGAGCAG	CCGCGCGGCC	TCGGCCAGCC	CCTACACCCC	AGAGCACGCC	302
GCCAGCGTGC	CCACCCACTC	GCCCTACGCA	CAACCCAGCT	CCACCTTCGA	422
GCCAGCGTGC	CCACCCAcTC	GCCTACGCA	CAACCCAGCT	CCACCTTCGA	352
CACCATGTCG	CCGCCCCTG	TCATCCCCTC	CAACACCCAC	TACCCCGGAC	
CACCATGTCG	CCGGCGCCTG	TCATCCCCTC	CAACACCGAC	TACCCCGGAC	482
				•	
CCCACCACTT	TGAGGTCACT	TTCCAGCAGT	CCAGCACGGC	CAAGTCAGCC	532
CCCACCACTT	TGAGGTCACT	TTCCAGCAGT	CCAGCACGGC	CAAGTCAGCC	452
ACCTGGACGT	ACTCCCCGCT	CTTGAAG			
	ACTCCCCGCT			-	
			•		

FIG. 14

		•		•
	100 0 0 0	150 0 0 0	200 200 0	250 24 0 0
sr-p70a TAACGCCCCCCCCCCCCCCCCCCCCCCASr-p70f	sr-p70a T A T A A C C C G C C T A G G G C C G G C C C G C C C T G C C T C C C C	sr-p70a C C G C C C G G A G G C T C G C G C C C G C G A A G G G G A C G C A G C G A A A C C G G G G	sr-p70a C C G C C C A G G C C A G C C G G A C G G C C G A T G C C C G G G C T G C G A C G G C T Sr-p70f	sr-p70a G C A G A G C T G C C T C G G A G G C C G G C G T G G G G A A G A T G G C C C A G T C C A C C A C C A C C A C C A C C A C C A C C A C C A C C
	~~~~~~~	0 0 0 0 0		S 13 S1 S

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		-		22/36		
300 24 0	63	350 72 0	113	400 122 33 33 163	450 172 66 66 213	500 222 116 116 263
sr-p70a C C G C C A C C T C C C T G A T G G G G G C A C C T T T G A G C A C C T C T G G A G C T C T Sr p70f)b [c c c c c c c c c c c c d d r g g g g g c a c c a c g r r r g a g c a c c r c r g g a g c r c '	-p70a C T G -p70f G -p70d	CTGGAACCAGACCTTCGACCTTCGACTTAGTCAGTCAAGCCGGGA	sr-p70a TAATGAGGTGGCGGAACGGATTCCAGCATGGACGTCTTCCAGCTGGSr-p70f TAATGAGGTGGTGGGGGGGAACGGATTCCAGCATGGACGTCTTCCAGGSr-p70d ATGCTGTACGTGGTGACCCGCACGCACGTCT ATGCTGTACGTGGTGACCCGCACGCACGTC	sr-p70a A G G G C A T G A C T A C A T C T G T C A T G G C C C A G T T C A A T C T G C T G A G C A G C A C C Sr-p70f A G G G C C A T G A C T C A T G T C A T G G C C C A G T T C A A T C T G C T G A G C A C C Sr-p70d	sr-p70a A T G G A C C A G A T G A G C A G C C G C G C C C T C G G C C A G C C C T A C A C C C C A G A Sr-p70f A T G G A C C A G C A G C C G C G C G C C T C G G C C A G C C C T A C A C C C C A G A Sr-p70d A T G G A C C A G C C G C G C G C G C C T C G C C C A G C C C T A C A C C C C A G A Sr-p70e A T G A G C A G C C G C G C G C G C C T C G C C C T A C A C C C C A G A Sr-p70b A T G G A C C A G C C C C C C A G C C C C A G C C C C

		23/36		
550 272 166 166 313	600, 322, 216, 216, 363	650 372 266 266 413	700 422 316 316 463	750 472 366 366 513
5 6 1	0.1 1 2 0	50. 72. 66 66	0 1 1 9 9	5 6 1
p70a G C p70d G C p70d G C p70e G C p70b G C	p70a C C p70f C C p70d C C C p70e C C C p70b C C C	p70a C C p70d C C p70d C C C p70e C C C p70e C C C p70e C C C	p70a G T p70f G T p70d G T p70e G T p70b G T	p70a T C p70f T C p70d T C p70e T C p70b T C
SI- SI- SI- SI-	ST	SI- SI- SI- SI-	SI - 18	SI- SI- SI- SI-

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800 522 416 416 563	850. 572 466 466 613	900 622 516 516 663	950 672 566 566 713
ACTGCCATCCGGGCCATGCCTGTTTACAAGAAGCGGAGCACGTGAC ACTGCCATCCGGGCCATGCTTTACAAGAAGCGGAGCACGTGAC 52 ACTGCCATCCGGGCCATGCCTGTTTACAAGAAAGCGGAGCACGTGAC 41 ACTGCCATCCGGGCCATGCCTGTTTACAAGAAGCGGAGCACGTGAC 41 ACTGCCATCCGGGCCATGCCTGTTTACAAGAAAGCGGAGCACGTGAC 41	CGTCGTGAAACGCTGCCCCAACCACGAGCTCGGGAGGACTTCAACG CGTCGTGAAACGCTGCCCCAACCACGAGCTCGGGAGGACTTCAACG 57 CGTCGTGAAACGCTGCCCCAACCACGAGCTCGGGAGGACTTCAACG 46 CGTCGTGAAACGCTGCCCCAACCACGAGCTCGGGAGGACTTCAACG 46 CGTCGTGAAACGCTGCCCCAACCACGAGCTCGGGAGGACTTCAACG	GACAGTCTGCTCCAGCCAGCCTCTCATCCGCGTGGAAGGCAATAATGACACAGCAATAATGACAGCTGCAATAATGACAGCTGCAATAATGACAGCTGCAGCAATAATGACAGCAGCAATAATGACAGTGGAAGGCAATAATGACAGTGGAAGGCAATAATGACAGTGAAGGCAATAATGACAGTTGATCCGCGTGGAAGGCAATAATGACAGTTGATCCGCGTGGAAGGCAATAATGACAAGGCAATAAT	TCGCAGTATGTGACCCTGTCACCGGCAGGCAGAGCGTCGTGGTTCGCGCAGGCAG
p70a G G C p70f G G C p70d G G C p70e G G C p70b G G C	p70a C G A p70f C G A p70d C G A p70e C G A p70b C G A	p70a A A G p70f A A G p70d A A G p70e A A G p70b A A G	p70a C T C p70f C T C p70d C T C p70e C T C p70b C T C
SI- SI- SI- SI-	SI- SI- SI- SI-	Sr- Sr- Sr-	SI- SI- SI- SI-

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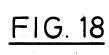
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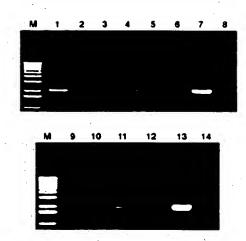
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	241	GCCCAGTCCACCGCCACCTCCCCTGATGGGGGCACCACGTTTGAGCACCTCTGGAGCTCT	GTC	CCAC	Sco	CAC	CTC	သည	TGA'	1GG	ğgg	CAC	CAC	3TT	IGA	SCAC	SCTC	TGG	;AGC	TCL	30
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	301	CTGGAACCAGACACCTACTTCGACCTTCCCCCAGTCAAGCCGGGGGAATAATGAGGTG	VACC	AG/	ACAC	SCAC	CTA	CTT	CGA	CCL	Ω	CA	J.C.	AAG(g	999	SAAT	TAAT	GAC	SGTG	36
	22	LEPDSTYFDLPQSSRGNNEV	Д,	Ω	Ś	E	7	Œ	۵	٦	ď	o	S	S	œ	ပ	z	z	ш	· >	41
	361	GIGGGCGGAACGGATTCCAGCATGGACGTCTTCCACCTGGAGGGCATGACATCTGTC	3000	SAAC	366	VTTC	CAG	CAT	SGA	S	CTT	CCAC	S	3GA(3660	CATC	Act	ACA	TCT	CTC	42
	42	V G G T D S S M D V F H L E G M T T S V	ტ	۲	Q	S	S	Σ	۵	>	Ĺ,	Ŧ	J	ធា	ပ	Σ	۲	E-4	S	>	61
	421	ATGCCCCAGTTCAATCTGCTGAGCAGCACCATGGACCAGATGAGCAGCCGCCGCCCTCG	CCA	\GT7	CA	VTCT	GCT	GAG	CAG	SAC	CAT	SGAC	Š	3AT(3AG	SAGO	33	555	SS	TCG	48
•	62	MAQFNLLSSTMDOMSSRAAS	ø	Œ,	z	J	٦	S	S	H	Σ	Ω	Ø	Σ	S	S	~	A	Ø	S	81
	481	GCCAGCCCCTACACCCCAGAGCACGCCGCCAGCGTGCCCACCCCACTCGCCCTACGCACAA	ညည္	CTA	CAC	သည္	AGA	GCA	SSC	ğ	SAG	SG	ည္ဟ	SAC(CA	Š	သည	TAC	SC	CAA	54
	83	ASPYTPEHAASVPTHSPYAO	۵.	>-	۲	نه	Э	×	¥	4	S	>	۵.	Ė	Ξ	တ	Д,	>	4	0	10
	541	CCCAGCTCCACCTTCGACACCATGTCGCCGGCGCCTGTCATCCCCTCCAACACGGCTAC	CTC	CAC	CTT	CGA	CAC	CAT	STC	SCC	3600	CC	GYP	CAT	$\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}}}}}$	CTCC	AAC	ACC	GAC	TAC	09
•	102	PSSTFDTMSPAPVIPSNTDY	S	E	Œ	Ω	F	Σ	S	а.	ď	d,	>	H	Д,	S	z	٤٠		>	12
	601	CCCGGACCCCACCACTITIGAGGTCACTITICCAGCAGTCCAGCACGGCCAAGTCAGCCACC	ACC	CC	CCA	CTT	"IGA	GGT	CAC	L'ILL	CAK	SCAC	TCC	SAG	ACC	SCC	AAG	TCA	CCC	ACC.	99
	122	PGPHHFEVTFOOSSTAKSA	d,	I	Ξ	Œ,	স	>	€-	ŭ,	0	0	S	S	₽	4	×	S	4	1	14
	661	TGGACGTA	GTA	:	• :						,									,	
	142	3													•						





M 1 2 3 4 5 6 7 8 9 10 M

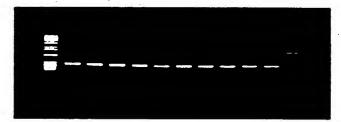


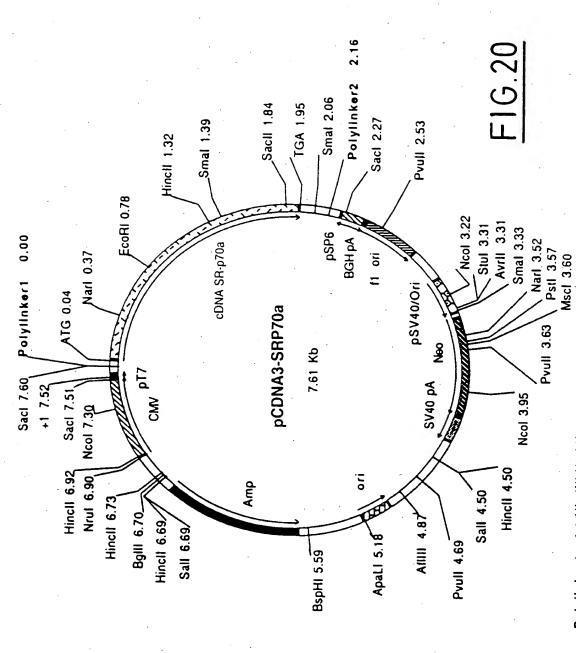
FIG.19A

M 1 2 3 4 5 6 7 8 9 10 M



FIG.19B

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Polylinker1: 0.0/Hindill.Notl.Kpnl. Polylinker2: 2.16/Xbal.Notl.Apal.